CLAIMS

We claim:

1. A method for using a framework module to run an application, the framework module comprising an application table and a parameter table, the application table comprising one or more application table entries, the parameter table comprising one or more parameter table entries, the method comprising:

selecting an application table entry; and

processing the selected application table entry, the processing comprising: running a global initialize function referenced by the selected application table entry, running a sub-application referenced by the selected application table entry with one or more parameters referenced by one or more parameter table entries, and running a global terminate function referenced by the selected application table entry.

- 2. The method of claim 1 wherein at least one of the global initialize and the global terminate functions is a NULL function.
- 3. The method of claim 1 further comprising:

 running a module initialize function referenced by the framework module; and
 running a module terminate function referenced by the framework module.
- 4. The method of claim 1 wherein running a sub-application comprises:

 accessing from the selected application table entry a number of threads to run; and
 for each of the number of threads to run, running a thread initialize function
 referenced by the selected application table entry, running the sub-application, and
 running a thread terminate function referenced by the selected application table entry.
- 5. The method of claim 1 further comprising:
 selecting each application table entry in the application table; and
 processing each selected application table entry.

6. The method of claim 1 further comprising:

collecting data specifying that a sub-application should not be run; and wherein selecting comprises selecting an application table entry other than one that references the specified sub-application.

7. The method of claim 1 further comprising:

collecting data specifying a value of a parameter;
collecting data specifying a sub-application; and
wherein processing further comprises: if the application table entry being
processed references the specified sub-application, then using the specified value of the
parameter.

8. The method of claim 1 further comprising:

collecting data specifying a type of error;
collecting data specifying a sub-application;
collecting data specifying an error response action; and
wherein processing further comprises: if the application table entry being
processed references the specified sub-application, and if the specified sub-application
generates an error of the specified type, then performing the specified error response
action.

- 9. The method of claim 8 wherein the error response action is in the set: break into a debugger, exit without clean up; terminate all threads; exit immediately.
- 10. A computer-readable medium having instructions for performing the method of claim 1.

11. A method for building a framework module for running an application, the framework module comprising an application table and a parameter table, the application comprising one or more sub-applications, the method comprising:

collecting data specifying one or more sub-applications composing the application;

collecting data specifying one or more parameters to the one or more subapplications;

creating the application table, the creating of the application table comprising creating an application table entry for each of the one or more specified sub-applications, the creating of an application table entry comprising creating a reference to a global initialize function, creating a reference to a global terminate function, and creating a reference to the sub-application; and

creating the parameter table, the creating of the parameter table comprising creating a parameter table entry for each of the one or more specified sub-application parameters, the creating of a parameter table entry comprising creating a reference to a name of the parameter and creating a reference to a type of the parameter.

- 12. The method of claim 11 wherein creating a reference to at least one of the global initialize and global terminate functions comprises creating a NULL reference.
- 13. The method of claim 11 wherein creating an application table entry further comprises creating a reference to a number of threads to run, creating a reference to a thread initialize function, and creating a reference to a thread terminate function.
- 14. The method of claim 11 further comprising:

 adding to the framework module a reference to a module initialize function; and adding to the framework module a reference to a module terminate function.
- 15. A computer-readable medium having instructions for performing the method of claim 11.

- 16. A computer-readable medium having stored thereon a data structure, the data structure comprising:
 - a first data field containing data representing a global initialize function; a second data field containing data representing a global terminate function; and a third data field containing data representing an application function.
- 17. The data structure of claim 16 wherein the data representing at least one of the global initialize and global terminate functions are NULL data.
- 18. The data structure of claim 16 further comprising:

 a fourth data field containing data representing an application test function.
- 19. The data structure of claim 16 further comprising:
 a fourth data field containing data representing a number of times to call the application function.
- The data structure of claim 19 further comprising:a fifth data field containing data representing an application post function.
- 21. The data structure of claim 20 further comprising:
 a sixth data field containing data representing an application post test function.
- 22. The data structure of claim 16 further comprising:

 a fourth data field containing data representing a number of threads to run;

 a fifth data field containing data representing a thread initialize function; and
 a sixth data field containing data representing a thread terminate function.

- 23. A computer-readable medium having stored thereon a data structure, the data structure comprising:
 - a first data field containing data representing an application table, the application table comprising an application table entry; and
 - a second data field containing data representing a parameter table, the parameter table comprising a parameter table entry.
- 24. The data structure of claim 23 wherein the application table entry comprises:

 a third data field containing data representing a global initialize function;

 a fourth data field containing data representing a global terminate function; and

 a fifth data field containing data representing an application function.
- 25. The data structure of claim 24 wherein the application table entry further comprises: a sixth data field containing data representing an application test function.
- 26. The data structure of claim 24 wherein the application table entry further comprises:

 a sixth data field containing data representing a number of times to call the application function.
- 27. The data structure of claim 26 wherein the application table entry further comprises: a seventh data field containing data representing an application post function.
- 28. The data structure of claim 27 wherein the application table entry further comprises: an eighth data field containing data representing an application post test function.
- 29. The data structure of claim 24 wherein the application table entry further comprises:

 a sixth data field containing data representing a number of threads to run;

 a seventh data field containing data representing a thread initialize function; and
 an eighth data field containing data representing a thread terminate function.

- 30. The data structure of claim 23 wherein the parameter table entry comprises:

 a third data field containing data representing a name of a parameter;

 a fourth data field containing data representing a type of the parameter; and

 a fifth data field containing data representing a value of the parameter.
- 31. The data structure of claim 23 wherein the application table comprises a second application table entry.
- 32. The data structure of claim 23 wherein the parameter table comprises a second parameter table entry.
- 33. The data structure of claim 23 further comprising:

 a third data field containing data representing a module initialize function; and
 a fourth data field containing data representing a module terminate function.
- 34. The data structure of claim 23 further comprising:

 a third data field containing data representing a module check function; and
 a fourth data field containing data representing a module clean up function.